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L14: Entry 2 of 2

File: DWPI.

Feb 10, 1989

DERWENT-ACC-NO: 1989-089814

DERWENT-WEEK: 198912

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TITLE: Prodn. of precisely ground glass e.g. glass lens - by lapping with cerium oxide base polishing material and then with colloidal silica

PATENT-ASSIGNEE:

ASSIGNEE

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CODE

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PRIORITY-DATA: 1987JP-0197781 (August 7, 1987)

PATENT-FAMILY:

PUB-NO

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LANGUAGE

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MAIN-IPC



JP 01040267 A

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APPLICATION-DATA:

PUB-NO

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DESCRIPTOR

JP 01040267A

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INT-CL (IPC): B24B 37/00

ABSTRACTED-PUB-NO: JP 01040267A

BASIC-ABSTRACT:

The surface of a glass plate is lapped with a Ce oxide base polishing material before carrying out final lapping using colloidal silica that has a specific surface area of 200-600 m²/g and a grain size of less than 300 microns. The colloidal silica used is produced by hydrolysing an alkoxy silane in a water - alcohol soln. contg. an ammonia alkali catalyst.

Specifically the pH of the colloidal silica is adjusted to 9-11 by adding NaOH, KOH, amine type alkali, etc. A polishing cloth is used and pushed onto the grinding surface of glass articles with a pressure of 0.01-1 kg/cm².

USE/ADVANTAGE - Surface of a glass lens, mirror, photo-mask or other optical glass articles is finally polished with a surface roughness lower than 20 Angstroms, without deteriorating the surface and scratching the polished surface.

CHOSEN-DRAWING: Dwg.0/3

TITLE-TERMS: PRODUCE PRECISION GROUND GLASS GLASS LENS LAP CERIUM OXIDE BASE POLISH
MATERIAL COLLOID SILICA

DERWENT-CLASS: L01 P61

CPI-CODES: L01-G06;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1989-039875

Non-CPI Secondary Accession Numbers: N1989-068260

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